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NEWS 4 DEC 08 INPADOC: Legal Status data reloaded
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NEWS 6 OCT 10 PCTFULL: Two new display fields added
NEWS 7 OCT 21 BIOSIS file reloaded and enhanced
NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9 NOV 24 MSDS-CCOHS file reloaded
NEWS 10 DEC 08 CABA reloaded with left truncation
NEWS 11 DEC 08 IMS file names changed
NEWS 12 DEC 09 Experimental property data collected by CAS now available in REGISTRY
NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/CAplus
NEWS 14 DEC 17 DGENE: Two new display fields added
NEWS 15 DEC 18 BIOTECHNO no longer updated
NEWS 16 DEC 19 CROPUS no longer updated; subscriber discount no longer available
NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19 DEC 22 ABI-INFORM now available on STN
NEWS 20 JAN 27 Source of Registration (SR) information in REGISTRY updated and searchable
NEWS 21 JAN 27 A new search aid, the Company Name Thesaurus, available in CA/CAplus
NEWS 22 FEB 05 German (DE) application and patent publication number format changes
NEWS 23 MAR 03 MEDLINE and LMEDLINE reloaded
NEWS 24 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 25 MAR 03 FRANCEPAT now available on STN

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=> s OPRTase and plant

5. QBRTASE AND PLANT

=> d 11 1-5 tj

L1 ANSWER 1 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Regulation of quinolate phosphoribosyl transferase expression by
transformation with a tobacco quinolate phosphoribosyl transferase nucleic
acid

L1 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Regulation of quinolinate phosphoribosyl transferase expression

L1 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Molecular characterization of quinolinate phosphoribosyltransferase (***OBPTagc***) in *Nigella*

L1 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI Molecular characterization of quinolinate phosphoribosyltransferase (***ORPTase***) in *Nicotiana*

L1 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
TI Cloning of cDNA for tobacco quinolinate phosphoribosyl transferase (

QPRTase) and methods of producing nicotine-low ***plants***
by regulating the expression of ***QPRTase***

=> d 11 1-3 ibib ab

L1 ANSWER 1 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2003:354774 BIOSIS
DOCUMENT NUMBER: PREV200300354774
TITLE: Regulation of quinolate phosphoribosyl transferase expression by transformation with a tobacco quinolate phosphoribosyl transferase nucleic acid.
AUTHOR(S): Conkling, Mark A. [Inventor, Reprint Author]; Song, Wen [Inventor]; Mendu, Nandini [Inventor]
CORPORATE SOURCE: ASSIGNEE: North Carolina State University
PATENT INFORMATION: US 6586661 July 01, 2003
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (July 1 2003) Vol. 1272, No. 1.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133 (ISSN print).
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 30 Jul 2003
Last Updated on STN: 30 Jul 2003
AB DNA encoding a tobacco quinolate phosphoribosyl transferase (***QPRTase***) enzyme, and constructs comprising such DNA are provided. Methods of altering quinolate phosphoribosyl transferase expression are provided.

L1 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2002:476547 BIOSIS
DOCUMENT NUMBER: PREV200200476547
TITLE: Regulation of quinolate phosphoribosyl transferase expression.
AUTHOR(S): Conkling, Mark A. [Inventor, Reprint author]; Song, Wen [Inventor]; Mendu, Nandini [Inventor]
CORPORATE SOURCE: Fuquay Varina, NC, USA
ASSIGNEE: North Carolina State University
PATENT INFORMATION: US 6423520 July 23, 2002
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (July 23, 2002) Vol. 1260, No. 4.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
CODEN: OGUPE7. ISSN: 0098-1133.
DOCUMENT TYPE: Patent
LANGUAGE: English
ENTRY DATE: Entered STN: 11 Sep 2002
Last Updated on STN: 11 Sep 2002
AB DNA encoding a ***plant*** quinolate phosphoribosyl transferase (***QPRTase***) enzyme, and constructs comprising such DNA are provided. Methods of altering quinolate phosphoribosyl transferase expression are provided.

L1 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
ACCESSION NUMBER: 2001:102405 BIOSIS
DOCUMENT NUMBER: PREV200100102405
TITLE: Molecular characterization of quinolinate

AUTHOR(S) : phosphoribosyltransferase (***QPRTase***) in Nicotiana.
Sinclair, Steven J.; Murphy, Kristina J.; Birch, Carlie D.;
Hamill, John D. [Reprint author]
CORPORATE SOURCE: Department of Biological Sciences, Monash University,
Clayton Campus, Melbourne, Victoria, 3168, Australia
john.hamill@sci.monash.edu.au
SOURCE: Plant Molecular Biology, (November, 2000) Vol. 44, No. 5,
pp. 603-617. print.
CODEN: PMBIDB. ISSN: 0167-4412.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 28 Feb 2001

Last Updated on STN: 15 Feb 2002

AB Quinolate acid phosphoribosyltransferase (***QPRTase***), a key enzyme in nicotinamide adenine dinucleotide (NAD) biosynthesis, also plays an important role in ensuring nicotinic acid is available for the synthesis of defensive pyridine alkaloids in Nicotiana species. In this study, cDNAs for ***QPRTase*** were characterized from N. rustica and N. tabacum. Deduced proteins from both cDNAs are almost identical and contain a 24 amino acid N-terminal extension, not reported in other ***QPRTases***, that has characteristics of a mitochondrial targeting sequence. In N. tabacum and N. sylvestris, both of which contain nicotine as the major pyridine alkaloid, ***QPRTase*** transcript was detected in roots, the site of nicotine synthesis, but not in leaves.

QPRTase transcript levels increased markedly in roots of both species 12-24 h after damage to aerial tissues, with a concomitant rise in transcript levels of putrescine N-methyltransferase (PMT), another key enzyme in nicotine biosynthesis. In N. glauca, however, in which anabasine represents the major pyridine alkaloid, ***QPRTase*** transcript was detected in both leaf and root tissues. Moreover, wound induction of ***QPRTase*** but not PMT was observed in leaf tissues, and not in roots, 12-24 h after wounding. Southern analysis of genomic DNA from the Nicotiana species noted above, and also several others from within the genus, suggested that ***QPRTase*** is encoded by a small gene family in all the species investigated.

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Mar 19, 2004 (20040319/UP).

=> S quinolate and plant

0 QUINOLATE

13 PLANT

7 PLANTS

20 PLANT

(PLANT OR PLANTS)

L2 0 QUINOLATE AND PLANT

| | | | |
|---------------------------------------|------------|---------|--|
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=> s quinolate and plant
L3 60 QUINOLATE AND PLANT

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L4 55 DUPLICATE REMOVE L3 (5 DUPLICATES REMOVED)

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L4 ANSWER 1 OF 55 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Regulation of ***quinolate*** phosphoribosyl transferase expression by
transformation with a tobacco ***quinolate*** phosphoribosyl
transferase nucleic acid.

L4 ANSWER 2 OF 55 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Regulation of ***quinolate*** phosphoribosyl transferase expression.

L4 ANSWER 3 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN
TI Modifying nicotine and nitrosamine levels in genetically engineered
tobacco

L4 ANSWER 4 OF 55 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI Sources of resistance to Fusarium wilt of chickpea in Sudan.

L4 ANSWER 5 OF 55 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 1
TI Molecular characterization of quinolinate phosphoribosyltransferase
(QPRTase) in Nicotiana.

L4 ANSWER 6 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN
TI Cloning of cDNA for tobacco ***quinolate*** phosphoribosyl transferase
(QPRTase) and methods of producing nicotine-low ***plants*** by
regulating the expression of QPRTase

L4 ANSWER 7 OF 55 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 2

TI Abnormal growth and flowering of Phalaenopsis induced by fungicides.
 L4 ANSWER 8 OF 55 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI Non-basic components of Coptis rhizoma. II. Four new hemiterpenoid glucosides, two new phenylpropanoid glucosides and a new flavonoid glycoside from Coptis japonica var. dissecta.
 L4 ANSWER 9 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Effectiveness of fungicides for control of fusarium wilt of flax
 L4 ANSWER 10 OF 55 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 TI Effect of some fungicide seed treatments on the survival of Bradyrhizobium japonicum and on the nodulation and yield of soybean (Glycine max. (L) Merr.).

=> d 14 3 5 ibib ab

L4 ANSWER 3 OF 55 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2002:964110 CAPLUS
 DOCUMENT NUMBER: 138:52885
 TITLE: Modifying nicotine and nitrosamine levels in genetically engineered tobacco
 INVENTOR(S): Conkling, Mark A.
 PATENT ASSIGNEE(S): Vector Tobacco Ltd., Bermuda
 SOURCE: PCT Int. Appl., 48 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|--|-----------------|----------|
| WO 2002100199 | A2 | 20021219 | WO 2002-US18040 | 20020606 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ | | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | |

PRIORITY APPLN. INFO.: US 2001-297154P P 20010608
 AB The present invention generally relates to tobacco and tobacco products having a reduced amt. of nicotine and/or tobacco specific nitrosamines (TSNA). More specifically, several ways to make tobacco ***plants*** that have reduced nicotine and TSNA levels have been discovered. Embodiments include tobacco harvested from said tobacco ***plants***, cured tobacco from said tobacco ***plants***, tobacco products made with said cured tobacco and methods of making these compns. Thus gene RD2 from tobacco was identified and found to encode a ***quinolate*** phosphoribosyl transferase. This gene was isolated and reintroduced into tobacco in an antisense orientation. Tobacco ***plants*** thus transformed displayed a reduced amt. of nicotine and tobacco specific

nitrosamines.

L4 ANSWER 5 OF 55 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 1
ACCESSION NUMBER: 2001:102405 BIOSIS
DOCUMENT NUMBER: PREV200100102405
TITLE: Molecular characterization of quinolinate
phosphoribosyltransferase (QPRTase) in Nicotiana.
AUTHOR(S): Sinclair, Steven J.; Murphy, Kristina J.; Birch, Carlie D.;
Hamill, John D. [Reprint author]
CORPORATE SOURCE: Department of Biological Sciences, Monash University,
Clayton Campus, Melbourne, Victoria, 3168, Australia
john.hamill@sci.monash.edu.au
SOURCE: Plant Molecular Biology, (November, 2000) Vol. 44, No. 5,
pp. 603-617. print.
CODEN: PMBIDB. ISSN: 0167-4412.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 28 Feb 2001
Last Updated on STN: 15 Feb 2002

AB ***Quinolate*** acid phosphoribosyltransferase (QPRTase), a key enzyme in nicotinamide adenine dinucleotide (NAD) biosynthesis, also plays an important role in ensuring nicotinic acid is available for the synthesis of defensive pyridine alkaloids in Nicotiana species. In this study, cDNAs for QPRTase were characterized from N. rustica and N. tabacum. Deduced proteins from both cDNAs are almost identical and contain a 24 amino acid N-terminal extension, not reported in other QPRTases, that has characteristics of a mitochondrial targeting sequence. In N. tabacum and N. sylvestris, both of which contain nicotine as the major pyridine alkaloid, QPRTase transcript was detected in roots, the site of nicotine synthesis, but not in leaves. QPRTase transcript levels increased markedly in roots of both species 12-24 h after damage to aerial tissues, with a concomitant rise in transcript levels of putrescine N-methyltransferase (PMT), another key enzyme in nicotine biosynthesis. In N. glauca, however, in which anabasine represents the major pyridine alkaloid, QPRTase transcript was detected in both leaf and root tissues. Moreover, wound induction of QPRTase but not PMT was observed in leaf tissues, and not in roots, 12-24 h after wounding. Southern analysis of genomic DNA from the Nicotiana species noted above, and also several others from within the genus, suggested that QPRTase is encoded by a small gene family in all the species investigated.

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